These one-day field clinics are designed to improve the agronomic management skills of industry personnel, extension and public agents, crop consultants, and producers. Specialists from Penn State and the agricultural community will provide hands-on diagnosis training in crop production, pest management, soil fertility, and soil and water conservation. Participants will be involved in a variety of topics and have ample opportunity to diagnose, solve, and discuss crop management problems and situations, and evaluate new and alternative management strategies. Practical information about interacting factors (nutrients, pests, environmental stress) that effect crop management and are unique to Northeastern agriculture can be discussed. In addition to gaining practical agronomic knowledge, CCA, nutrient management, and pesticide applicator license credits can be obtained. *(There will be a total of 5 CCA credits that can be acquired in CM, PM, and SW.)*

This year's clinic will be similar to past programs and will focus on various topics relating to crop and soil management. As always, there will be time for discussion and hands-on participation. The program is designed to allow participants to attend all of the sessions and will include:

►Soil Genesis/Inherent Properties Related to Crop Production and Soil Management
Understanding the genesis of the soils on a farm provides important knowledge that affects the management of farm fields. This session covers soils forming processes and the techniques used to understand how soil forms. We will then apply this knowledge to crop management.
Certified Crop Adviser CEUs: 1.0 SW
Instructors: Dr. Patrick Drohan and Don Rill

►Soil Quality and Effects of Cover Crop Roots
Crop roots can stimulate soil aggregation as well as contribute to development of macro-pores. Root architecture plays an important role as well as when active root growth takes place. A new concept we use in no-till systems development is to design crop rotations that have active root growth throughout the year. In this session we will explore root systems of different crops and cover crops and how this knowledge can be used to develop crop rotations that improve soil quality.
Certified Crop Adviser CEUs: 1.0 SW
Instructor: Dr. Sjoerd Duiker

[Please register before July 16 to avoid a late fee]

►Corn and Soybean Disease Update
With increased prices of corn and soybeans, fungicide applications are more affordable – but are they necessary? This topic and other current issues with corn and soybean disease management will be discussed at this station.
Certified Crop Adviser CEUs: 1.0 PM
Instructors: Dr. Pierce Paul (Ohio State University) and Justin Dillon

►Pest Management Using Seed Traits and Seed Treatments
This session will feature hands-on training on how to assess the effectiveness of pest-management traits in corn. Participants will wash roots from corn plots with different treatments, looking for signs of rootworm feeding. In addition, a top-growth assessment will be made to evaluate damage from European corn borer. Based on observations during these assessment, participants will determine which plots utilized hybrid traits versus conventional hybrids. A discussion on proper use and management of hybrid traits will be held after the interactive session.
Certified Crop Adviser CEUs: 0.5 PM/0.5 CM
Instructors: Del Voight and Dr. John Tooker

►Herbicide Mode of Action and Resistant Weeds
Understanding herbicide mode of action is important when planning resistance management programs. At this station we will demonstrate and discuss the strengths and weaknesses of different herbicide modes of action and how to best choose herbicides in different action groups so mixtures or rotations of active ingredients can be planned to better manage weeds and reduce the potential for resistant species. Participants will have opportunity to test their herbicide symptomology skills.
Certified Crop Adviser CEUs: 1.0 PM
Instructors: Dr. Bill Curran and Dwight Lingenfelter

The registration fee of **$60.00/person** covers lunch, refreshments, and support materials.
(Late registration fee is $80 for reservations made after July 16)

Please register for the Clinic **on-line** or via **mail** or **FAX** (814) 865-7050 by completing the form. *Please register by **July 16** so that we can determine our material and luncheon needs.*

To register on-line, visit:
http://cropsoil.psu.edu/extension/clinic.cfm

Credit card payments will be accepted!

For more info and to register on-line see:
http://cropsoil.psu.edu/extension/clinic.cfm

2008 Penn State Agronomic Field Diagnostic Clinic

You are invited to attend one of the programs:

1. Name and contact information of primary registrant:

Name_____

Company_____

Address_____

_____

Phone_____

2. Choose a date and indicate how many are attending:
Tues., July 22 ___ **or** Wed., July 23 ___
Number attending _____

3. Total payment amount ($60.00 per person): $_____
(Late registration fee is $80 after July 16)
Indicate payment method
□Check enclosed (payable to Penn State University)
or □VISA □Mastercard □Discover □American Express

Card Number _____

Expiration date (month/year) _____

_____
Name (first and last, as it appears on card– please print)

_____
Cardholder Address

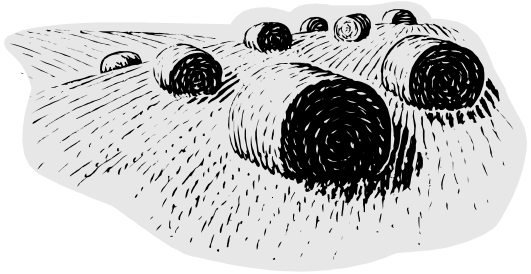
Cardholder email _____
(confirmation email will be sent as receipt)

Cardholder phone _____
(Credit card registrations can be submitted on-line, mailed, or faxed – see contact info below.)

To register, please mail or fax this registration form by **July 16** to:
PSU Agronomic Field Diagnostic Clinic
Office of Conf./Short Courses Phone: 814-865-8301
Penn State University FAX: 814-865-7050
301B Ag Administration Building
University Park, PA 16802
Email: shortcourse@psu.edu

2 PennState 0 Agronomic 0 Field 8 Diagnostic Clinic

presented by: Crop Management Extension Group PENNSTATE CMEG



Tuesday, July 22 and
Wednesday, July 23, 2008
9 a.m. – 4:30 p.m.

Agronomy Research Farm
Russell E. Larson Agricultural Research Center, Rock Springs, PA

PENNSTATE
College of Agricultural Sciences
Cooperative Extension

Issued in furtherance of Cooperative Extension Work, Acts of Congress May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture and the Pennsylvania Legislature. D.G. Jackson, Director of Cooperative Extension, The Pennsylvania State University.

Registration begins at 8:45 am at the Agronomy Farm site

http://cropsoil.psu.edu/extension/clinic.cfm

The PSU Agronomy Farm (Gate D) at the Russell E. Larson Ag Research Center is located 9 miles southwest of State College on Rt. 45.

Dwight D. Lingenfelter
Extension Agronomist